

MSDS No.: Revision No.: Date:

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012

MATERIAL SAFETY DATA SHEET

Product name: CFR-1 Cleaner

Description: Cleaning agent for Hilti CF 120-P2, CF 120-P3 and CF-DS1 foam dispensers

Supplier: Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121

Emergency # (Chem-Trec.): 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

INGREDIENTS AND EXPOSURE LIMITS

Ingredients:	CAS Number:	TLV:	PEL:	STEL:
Acetone	00067-64-1	750 ppm	750 ppm	1000 ppm
Isopropyl alcohol	00067-63-0	400 ppm	400 ppm	500 ppm
Butane	00106-97-8	800 ppm	800 ppm	NE
Propane	00074-98-6	NE	1000 ppm	NE

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. **NE** = None Established. **NA** = Not Applicable.

PHYSICAL DATA

Appearance: Clear aerosol. Odor: Sweet pungent odor. Vapor Density: (air = 1) $\sim 2 \text{ (air = 1)}$ Vapor Pressure: Not determined.

396 g/l **Boiling Point:** Not determined. **VOC Content: Evaporation Rate:** > 3.0Solubility in Water: Negligible. Specific Gravity: 0.72 pH: Not determined.

FIRE AND EXPLOSION HAZARD DATA

Flammable Limits: Flash Point: - 4° F (- 20° C) 1.4 - 12.8%

Extinguishing Media: Water, CO₂, Dry Chemical, Foam.

Special Fire Fighting Contents under pressure.

Cool exposed containers with water spray. A selfcontained breathing apparatus (SCBA) should be used in fires involving chemicals. **Procedures:**

Extremely flammable liquid and gas under pressure. Containers can explode or be propelled through the air when exposed to extreme heat such as fire. Vapors are Unusual Fire and **Explosion Hazards:** heavier than air and can migrate to distant ignition sources where they can be ignited.

Keep away from flames or sparking equipment.

REACTIVITY DATA

Stability: Stable. Hazardous Polymerization: Will not occur.

Strong acids and oxidizing agents. Extreme heat / fire. Incompatibility:

Decomposition Products: Thermal decomposition can yield CO and CO₂.

Exposure to high temperatures, extremely hot surfaces, flames, sparks, etc. Storage Conditions to Avoid:

above 120° F.

HEALTH HAZARD DATA

Acute: Skin irritation. Eye irritation and corneal burns. Central nervous system (CNS) depressant. **Chronic**: Dermatitis. **Known Hazards:**

Signs and Symptoms of

Exposure:

Eyes – Irritation and corneal burns can occur from direct contact with the eyes. Skin -Prolonged or repeated skin contact can cause irritation and defatting (drying) of the skin. **Inhalation** - Can be irritating to the respiratory tract if inhaled. Headaches and dizziness can occur from excessive exposure in poorly ventilated areas. Ingestion -Not a likely route of exposure. Considered to have a high acute oral toxicity based

upon isopropyl alcohol content.

Dermal. Inhalation. Routes of Exposure:

Carcinogenicity: No ingredients are classified as a carcinogen by IARC, NTP or OSHA.

Medical Conditions Aggravated by Exposure:

Eye, skin, and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Flush immediately with large amounts of clean water for at least 15 minutes. Seek Eyes:

medical attention if any effects develop.

Skin: Wash with soap and water. Seek medical attention if any effects persist.

Inhalation: Move victim to fresh air. Call a physician if symptoms persist.

Ingestion: If conscious, give plenty of water to drink. Do not induce vomiting unless large amounts

are ingested. Never give anything by mouth to an unconscious person. Contact a

physician immediately.

Referral to a physician is recommended if there is any question about the seriousness Other:

of the injury/exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation: General (natural or mechanically induced fresh air movements).

Splash-proof chemical goggles recommended. Safety glasses with side shields as a **Eye Protection:**

minimum.

Gloves recommended while cleaning tools (cloth or impermeable). Skin Protection:

Not normally required. **Respiratory Protection:**

PRECAUTIONS FOR SAFE HANDLING AND USE

Use with adequate ventilation. Extremely flammable liquid and gas under pressure. Handling and Storing Precautions:

Vapors are heavier than air and can be ignited by distant ignition sources. Keep Do not vapors and spray away from extremely hot surfaces, sparks and flame. puncture or incinerate container. Do not expose to excessive heat or store at temperatures above 120° F (49° C). Avoid contact with eyes, skin and clothing. Practice good hygiene; i.e. wash after using and before eating or smoking. Store indoors out of direct sunlight. For industrial use only. Keep out of reach of children.

Storage classifications: NFPA = Level 3; OSHA = Class 1A.

Spill Procedures: Remove all sources of ignition. Take up with an absorbent material and place in a

container for proper disposal in accordance with all applicable local, state, or federal

requirements.

REGULATORY INFORMATION

This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. **Hazard Communication:**

HMIS Codes: Health 1, Flammability 3, Reactivity 0, PPE A (Goggles)

Consumer commodity, ORM-D **DOT Shipping Name:**

IATA/ICAO Shipping Name: Aerosols, flammable, n.o.s. Class 2.1, UN 1950, Ltd. Qty.

Chemical components listed on TSCA inventory. **TSCA Inventory Status:**

SARA Title III, Section 313: This product does not contain any ingredients which are subject to reporting under

Section 313 of SARA Title III (40 CFR Part 372).

EPA Waste Code(s):

Waste Disposal Methods: Consult with regulatory agencies or your corporate personnel for disposal methods that

comply with local, state, and federal safety, health and environmental regulations.

CONTACTS

Customer Service: 1 800 879 8000 **Technical Service:** 1 800 879 8000

Health / Safety: 1 800 879 6000 Steve Gerrard (x6309) Jerry Metcalf (x6704)

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